

2003

EC03-1567 Grasshopper Identification Guide for Rangeland Grasshoppers Fall/Spring Feeding Species

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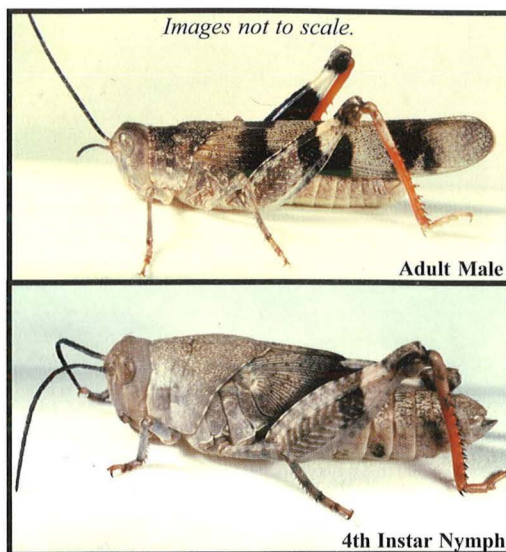
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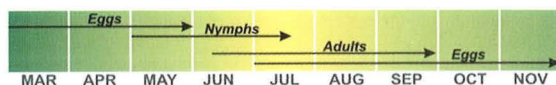
Threebanded Grasshopper

Hadrotettix trifasciatus



Adult Male

4th Instar Nymph



Facts

- Large bandwinged species, males make a crackling sound when they fly.
- Feeds on poor forage and poisonous plants as well as forage grasses.
- Usually found on hilltops and slopes.
- Eggs hatch in early May.

Adult Identification

- Tan with a round head and long antennae.
- Hind wings light yellow with an outer dark band.
- Forewings with three dark bands across width.
- Body length: females - 1.25", males 1".

Immature Identification

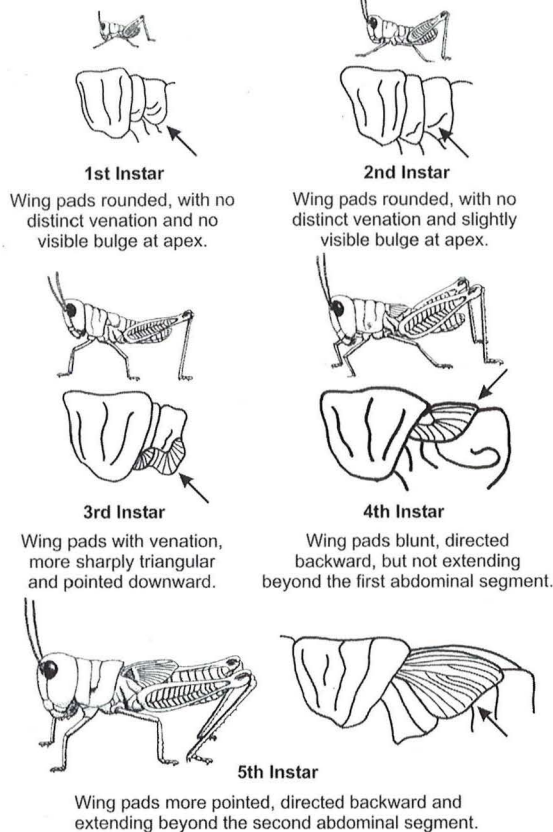
- Tan with large, round head and long antennae.
- Hind legs have a dark brown band across them.
- 4th instar nymph body length: 0.75".

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Biology and Management

On rare occasions, high populations of early season range grasshoppers coincide with slow growth of spring grass, causing economic loss. Most early season range grasshoppers overwinter in the nymphal stage. These grasshoppers survive by hiding under debris and organic matter. These nymphs, along with a few very early hatching species, feed on cool-season grasses as soon as they begin to green up. Several species can cause early-season feeding damage, some more seriously than others, thus identification is important. Nymphs are easier to control than adults because they are smaller and wingless. Identification of the nymphal development stage is important because control efforts should target the 3rd and 4th instar stages.

Nymph Development



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RASSHOPPER ENTIFICATION GUIDE for Rangeland Grasshoppers Fall/Spring Feeding Species

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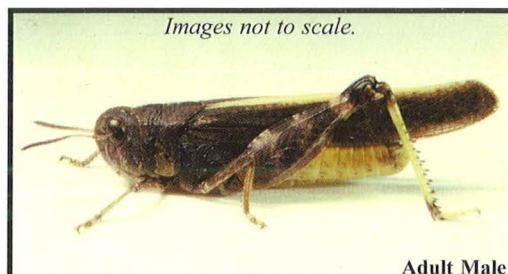
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Specklewinged Grasshopper

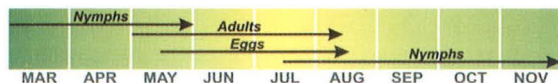
Arphia conspersa



Adult Male



4th Instar Nymph



Facts

- Large bandwinged grasshopper; males make a crackling sound when they fly.
- Hatches in mid-July and overwinters as a 5th instar nymph.
- Feeds on grasses and sedges by clipping blades near the base; often cuts more than it consumes.

Adult Identification

- Brown with yellow on the abdomen.
- Hind wings with red or yellow bands.
- Body length: females - 1.3", males - 0.75".
- Head rounded with a ridge down the middle of the pronotum (plate behind head).

Immature Identification

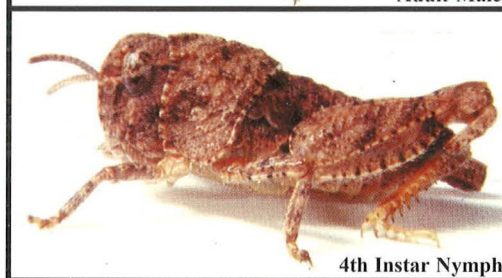
- Dark brown with brown speckles.
- 4th instar nymph body length: 0.5".
- Head large and round, pronotum with a ridge down the middle.

Redshanked Grasshopper

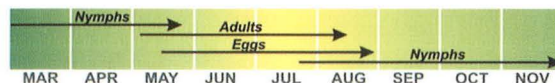
Xanthippus corallipes



Adult Male



4th Instar Nymph



Facts

- The largest bandwinged grasshopper; can fly more than 30 feet while making a crackling sound.
- Hatches in late July and overwinters as 5th and 6th instar nymphs.
- Feeds on grasses and sedges by clipping blades near the base; often cuts more than it consumes.

Adult Identification

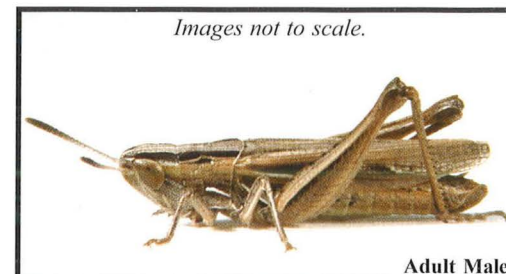
- Brown, forewings with large brown spots.
- Hind wings yellow with dark bands.
- Inner side of legs have a red coloration.
- Body length: Females -1.5", males - 1".
- Head rounded with a densely pitted pronotum (plate behind head).

Immature Identification

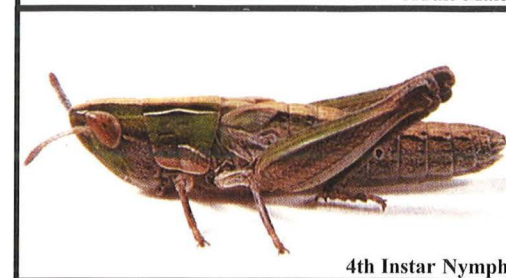
- Brown or gray with dark spots.
- 4th instar nymph body length: 0.4".
- Hind leg with a wide keel and dark diagonal bands.

Velvetstriped Grasshopper

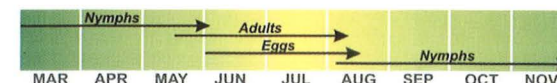
Eritettix simplex



Adult Male



4th Instar Nymph



Facts

- A small grasshopper with a slant-faced head.
- Hatches in July and overwinters as a 3rd or 4th instar nymph.
- Feeds on grasses and sedges by clipping blades near the base; often cuts more than it consumes.
- Seldom reaches economically damaging numbers.

Adult Identification

- Tan with brown or brown-green markings the length of the body.
- Body length: females - 0.9", males - 0.6".
- Both top of head and pronotum (plate behind head) with three ridges down their length.
- Side ridges of pronotum cream-colored and constricted near the middle.

Immature Identification

- Pale tan to green with brown side bands near top of head and pronotum.
- 4th instar nymph body length: 0.4".